

# Arabian Journal of Chemistry

## Editor-in-Chief

**Prof. Abdulrahman Abdullah Alwarthan**  
Chemistry Department, College of Science  
King Saud University, Riyadh  
Kingdom of Saudi Arabia  
E-mail: [awarthan@ksu.edu.sa](mailto:awarthan@ksu.edu.sa)

## Vice-Editors-in-Chief

**Prof. Sultan T. Abu-Orabi**  
President of Yarmouk University, Irbid-Jordan  
Jordanian Chemical Society, Arab Union of Chemists  
Secretary General  
E-mail: [Abuorabi@excite.com](mailto:Abuorabi@excite.com)

**Prof. Yousry M. Issa**  
Chemistry Department  
Cairo University  
Cairo, Egypt  
E-mail: [yousrymi@yahoo.com](mailto:yousrymi@yahoo.com)

**Dr. Zeid A. ALOthman**  
Chemistry Department  
King Saud University, Riyadh  
Saudi Arabia  
E-mail: [zaothman@ksu.edu.sa](mailto:zaothman@ksu.edu.sa)

## Editorial Board

**Prof. Belkheir Hammouti**  
Director, Laboratory of Applied Chemistry and  
Environment, Faculty of Science  
University of Mohammed Premier, Morocco  
E-mail: [hammoutib@yahoo.com](mailto:hammoutib@yahoo.com)

**Dr. Abdullah Al-Majid**  
Chemistry Department, King Saud University  
Riyadh, Saudi Arabia  
E-mail: [amajid@ksu.edu.sa](mailto:amajid@ksu.edu.sa)

**Prof. Mamia El Rhazi**  
Chemistry Department  
Faculty of Science and Technology  
Hassan II University – Mohammedia, Morocco  
E-mail: [elrhazim@hotmail.com](mailto:elrhazim@hotmail.com)

**Prof. Hamad Z. Al-Khathlan**  
Chemistry Department  
Science College, King Saud University  
Saudi Arabia  
E-mail: [Khathlan@ksu.edu.sa](mailto:Khathlan@ksu.edu.sa)

**Prof. Ibrahim A. Jibril**  
Chemistry Department  
Yarmouk University, Irbid, Jordan  
E-mail: [iajibril@yahoo.com](mailto:iajibril@yahoo.com)

**Prof. Ahmed-Yacine Badjah-Hadj-Ahmed**  
University of Science and Technology  
Houari Boumediene,  
Faculty of Chemistry  
BP 32 El Alia., 16111 Bab Ezzouar, Algiers, Algeria  
E-mail: [Ybadjah@hotmail.com](mailto:Ybadjah@hotmail.com)

**Abdelkader Bengueddach**  
laboratoire de Chimie des Materiaux  
Department of Chemistry  
Faculty of Science,  
University of Oran  
P.O. Box 1524 el Mnouar, 31000-Oran, Algeria  
E-mail: [aek-bengueddach@univ.oran.dz](mailto:aek-bengueddach@univ.oran.dz)

**Mohammad Hourani**  
Department of Chemistry, Al Balqa Applied  
University, Al-Salt, Jordan  
E-mail: [mhouran@bau.edu.jo](mailto:mhouran@bau.edu.jo)

**Prof. Mahmoud F. Farhat**  
Professor of Organic Chemistry  
Chemistry Department,  
Faculty of Science  
Al-Fateh University, P.O. Box: 13494, Tripole, Libya  
E-mail: [mf\\_farhat@yahoo.com](mailto:mf_farhat@yahoo.com)

**Prof. Nouria A. Al-Awadi**  
Professor of Organic Chemistry  
Department of Chemistry, Faculty of Science  
P.O. Box: 5969 Safat-13060, Kuwait University  
E-mail: [eam\\_hc5@kuc01.kuniv.edu.kw](mailto:eam_hc5@kuc01.kuniv.edu.kw)

**Dr. Falah H. Hussein**  
Professor of Physical Chemistry  
College of Science, University of Babylon  
Babylon - Hilla - Iraq  
E-mail: [abohasan\\_hilla@yahoo.com](mailto:abohasan_hilla@yahoo.com)

**Dr. Ameera Saeed Al-Haddad**  
University of Bahrain, Kingdom of Bahrain  
Department of Chemistry  
P.O. Box 32028, Issa Town, Kingdom of Bahrain  
E-mail: [ameera@sci.uoh.bh](mailto:ameera@sci.uoh.bh)

**Prof. Salah S Al-Labeia**  
Chemistry Department  
Science College, Basrah University  
Basrah, Iraq  
E-mail: [salah\\_al\\_labeia@yahoo.com](mailto:salah_al_labeia@yahoo.com)

**Prof. Faris T. Abachi**  
Pharmaceutical Chemistry  
College of Pharmacy, Mosul University, Mosul, Iraq  
E-mail: [farisabachi@yahoo.com](mailto:farisabachi@yahoo.com)

**Dr. Michelyne Haroun**  
Department of Pharmaceutical Chemistry,  
Faculty of Pharmacy, Umm Al-Qura University  
Mecca, KSA  
E-mail: [michelyneharoun@yahoo.com](mailto:michelyneharoun@yahoo.com)

## International Advisory Board

**Prof. Issa Yavari**  
Chemistry Department  
Tarbiat Modarres University, Tehran, Iran  
E-mail: [yavarisa@modares.ac.ir](mailto:yavarisa@modares.ac.ir)

**Prof. Dr. Mustafa Soylak**  
Erciyes University  
Faculty of Sciences  
Department of Chemistry  
38039 Kayseri, Turkey  
E-mail: [soylak@erciyes.edu.tr](mailto:soylak@erciyes.edu.tr)

**Prof. Robert G. Michel**  
Department of Chemistry, University of Connecticut  
55 North Eagleville Road, Storrs, CT 06269-3060  
E-mail: [robert.g.michel@uconn.edu](mailto:robert.g.michel@uconn.edu)

**Prof. Motaza M. Khater**  
Chemistry Department  
Cairo University, Cairo, Egypt  
E-mail: [motazakhater117@yahoo.com](mailto:motazakhater117@yahoo.com)

**Prof. Jacques Vicens**  
Directeur de recherche at CNRS, UMR 7178-CNRS  
Institut Pluridisciplinaire Hubert Curien  
Universite Louis Pasteur de Strasbourg  
Laboratoire de Conception Moléculaire  
ECPM25, rue Becquerel F-67087, France  
E-mail: [vicens@chimie.u-strasbg.fr](mailto:vicens@chimie.u-strasbg.fr)

**Prof. Jean-Michel Kauffmann**  
Free University of Brussels  
Lab, Instrumental Analysis and Bioelectrochemistry  
Pharmaceutical Institute, ULB 205/6  
Campus Plain B-1050 Brussels, Belgium  
E-mail: [jmkauf@ulb.ac.be](mailto:jmkauf@ulb.ac.be)

**Prof. Essam Khamis Al-Hanash**  
Vice-Dean for Graduate Studies & Research  
Faculty of Science, Mohram Bey, Alexandria University  
Alexandria, Egypt  
E-mail: [ekaijac@yahoo.com](mailto:ekaijac@yahoo.com)

**Prof. Jin, Jung-II (M)**  
35-41 Ku-Ui 2-Dong  
Kwang-Jin Ku, Seoul 133-202, Korea  
Chemistry Department and Center for Electro- and  
Responsive Molecules, College of Sciences,  
Korea University, 5-1 Anam-Dong, Seoul 136-701, Korea  
E-mail: [jjjin@korea.ac.kr](mailto:jjjin@korea.ac.kr), [jjjin@kcsnet.or.kr](mailto:jjjin@kcsnet.or.kr)

**Prof. Yuhan Sun**  
Institute of Coal Chemistry, Chinese Academy of Sciences  
P.O. Box: 165, Taiyuan, Shanxi, 030001, PR. China  
E-mail: [yhsun@sxicc.ac.cn](mailto:yhsun@sxicc.ac.cn)

**Prof. Mikhail M. Krayushkin**  
Head of Laboratory of Heterocyclic Compounds  
N.D.Zelinsky Institute of Organic Chemistry  
Russian Academy of Sciences  
119991, Moscow, Leninsky Prospekt 47, Russia  
E-mail: [mkray@ioc.ac.ru](mailto:mkray@ioc.ac.ru)

**Prof. Angel Rios Castro**  
Department of Analytical Chemistry and Food Tech.  
Faculty of Chemistry, University of Castilla-La Mancha  
AV. Camilo Jose Cela. 10, E-13004 Ciudad Real, Spain  
E-mail: [angel.rios@uclm.es](mailto:angel.rios@uclm.es)